KAJIMA

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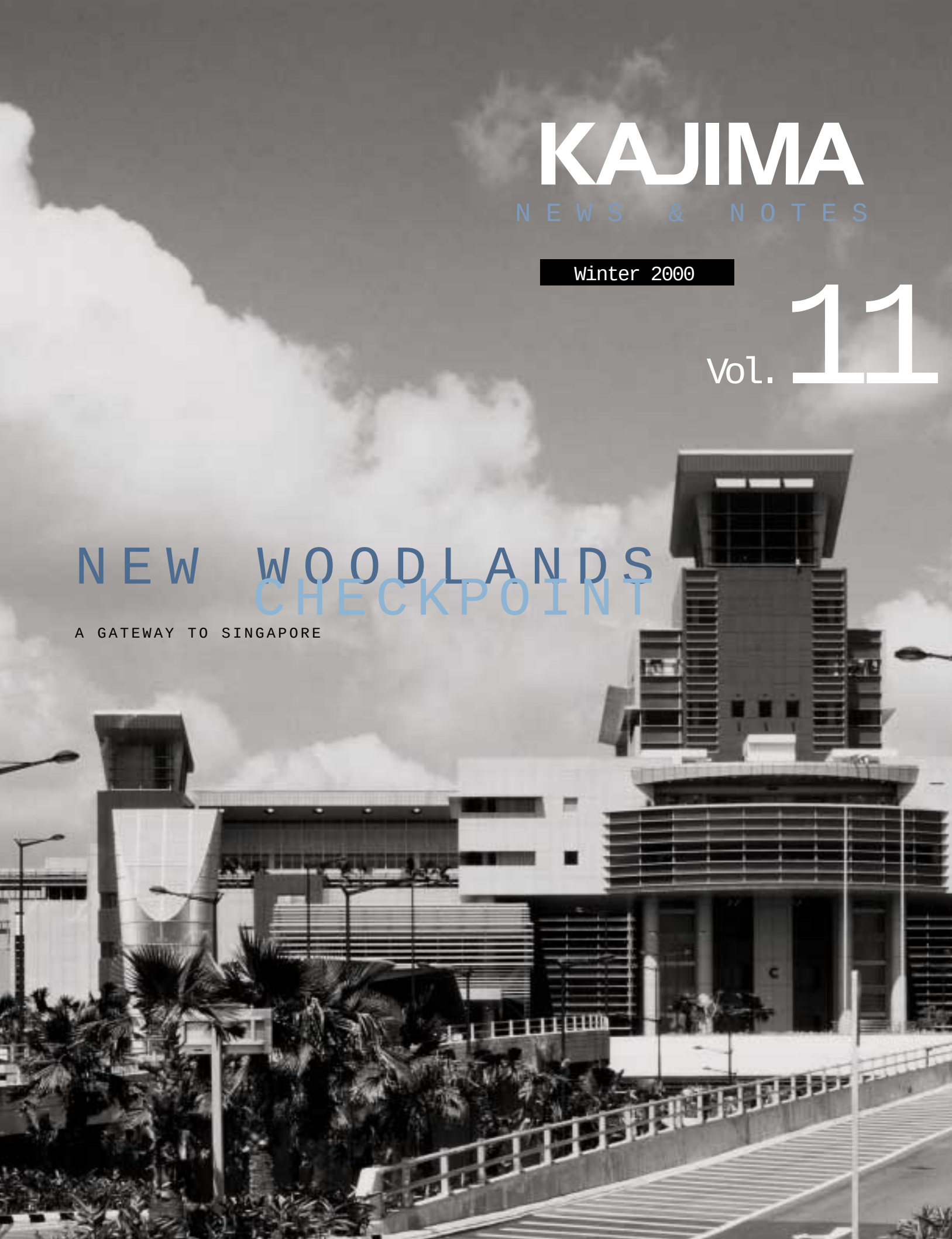

NEW WOODLANDS CHECKPOINT

A GATEWAY TO SINGAPORE

NEW WOODLANDS

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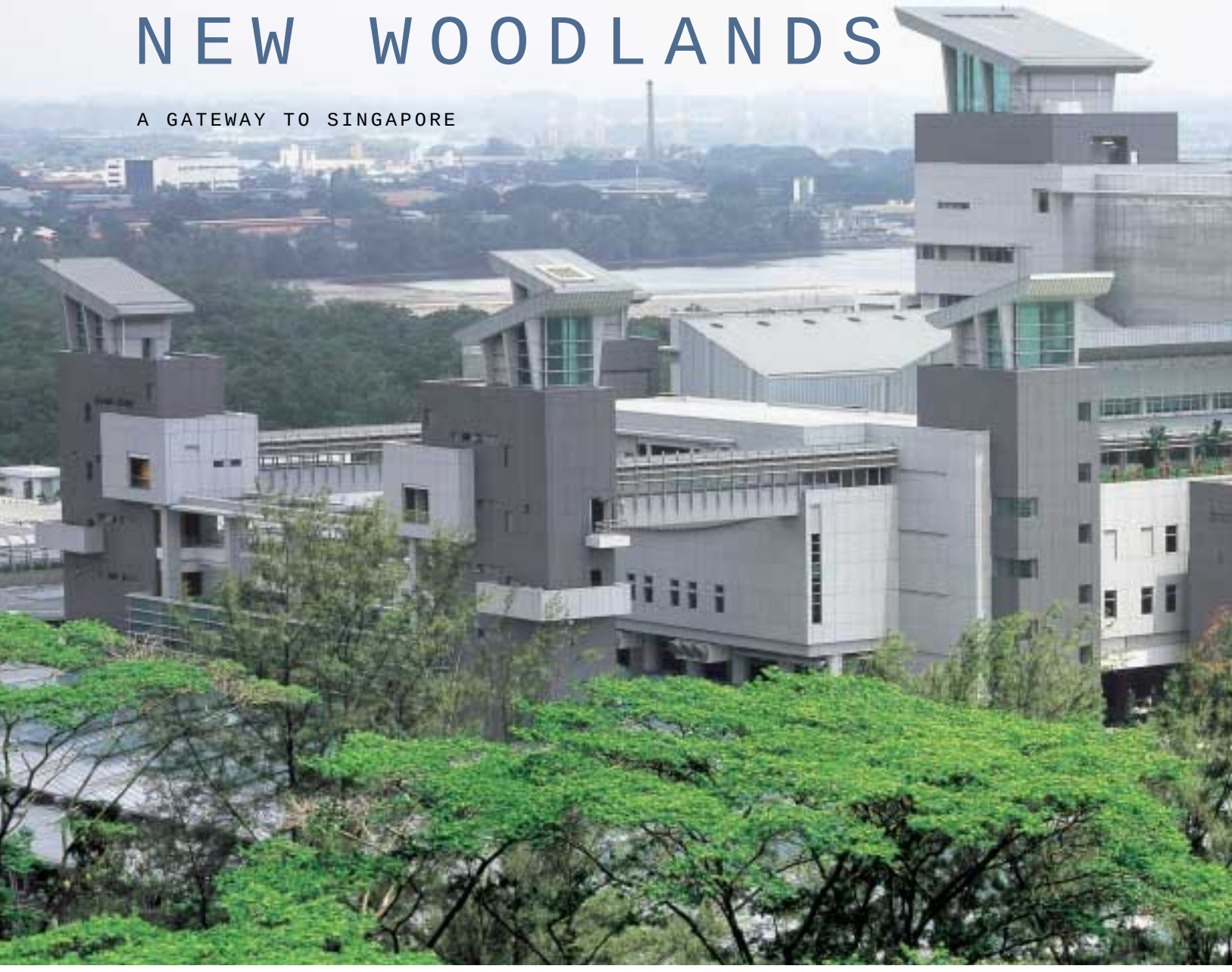

The overall view of the new Woodlands Checkpoint — buildings for the 21st century

In May 1999, Kajima Overseas Asia Pte. Ltd. completed the 34-month-long construction of Singapore's new land checkpoint project in Woodlands (northern Singapore), to replace the existing checkpoint built in the early 1970s. This massive S$275 million (US$165 million) project was initiated by Singapore Immigration & Registration to respond to the growing volume of land traffic between Singapore and Malaysia across a causeway connecting the two countries. With the capacity and facilities at the Woodlands Checkpoint, efficient clearance can be carried out for the increasing volume of vehicles and

passengers by the authorities.

The checkpoint is a huge complex comprising five building clusters linked together to form a mega-structure with an overall length of 400 meters and width of 280 meters, a total floor area of 132,600 square meters, built on approximately 15.4 hectares, of which two-thirds is reclaimed land. The middle portion of the complex rises up to thirteen stories and is used for offices. An almost symmetrically arranged line along the north–south axis of the checkpoint divides the arrival and departure facilities.

The project was designed by PWD Consultants Pte. Ltd. with the aim of creating a user-friendly, functional, and efficient checkpoint. The keys to achieving this aim lie in the introduction of new technologies and the road infrastructure.

In addition, the checkpoint's flexibility in adjusting its operations to suit the varying peak conditions of arrival and departure traffic increases its overall efficiency. When the motorcycle clearance number is high, certain car clearance zones can be used to clear the motorcycles. Motorists

One of the leading technologies applied to this new checkpoint is the Immigration Automated Clearance System, which uses biometric technology to clear passengers.

and motorcyclists are guided by a carefully planned sign system. This system enables optimum and efficient deployment of manpower.

The upgraded road infrastructure leading to the checkpoint also contributes to more efficient traffic flow. The road project included the construction of a pair of two-lane overpasses to connect the new checkpoint to the highway. A separate bridge carrying two three-lane roads will link the new checkpoint with trunk roads. With the new road system, the traffic flow around the nearby Woodlands Town Center is improved with the separation of causeway traffic from local traffic.

The primary requirement for this megaproject was an elegant, functional, yet timeless design. The facility's interior is furnished to reflect the significance of the project concept. The different kinds of plants and flowers used in the landscaping are aimed at presenting the visitor with a contrast between the concrete and steel designs of modern structures and the surrounding natural environment.

New Woodlands Checkpoint

Owner	**Singapore Immigration & Registration**
Development	**Kajima Overseas Asia Pte. Ltd.**
Design	**PWD Consultants Pte. Ltd.**
Size	**5 building clusters, 13 stories, 1 basement level**
Site	**15.4 hectares**
Total Floor Area	**132,600 square meters**

Kajima around the World

From Japan

Kajima President Sadao Umeda Attends Meeting of U.S. and Japanese Business Leaders

Kajima's president, Sadao Umeda, attended the 36th Japan/U.S. Business Conference held in San Francisco from July 11 through July 13, 1999. At the manufacturing subsession, Umeda presented the opening comments, which were on the subject of foreign direct investment. He noted that foreign direct investment in Japan was growing, but, to sustain further growth in such investment, government bodies and other public entities in outlying Japanese regions would have to actively work to attract foreign companies. He then gave examples of foreign companies that are successfully expanding their operations in Japan, citing them as evidence that Japanese consumers have a positive attitude toward foreign investment. Over the consecutive days of the conference, top business leaders from Japan and the U.S. engaged in lively discussions. The next session of the conference will be held in Tokyo in July 2000.

From Japan

Framework-Raising Ceremony for Universal Studios Japan's Theme Park

The framework-raising ceremony for the Universal Studios Japan theme park, which is under construction in Osaka, was held on October 7, 1999. Approximately 250 people attended the Japanese-style (Shinto) ceremony. Representing Kajima were Vice President Yuu Kojima and Takehisa Iho, who is a managing director and the general manager of Kajima's Kansai Branch. The Japanese facility is the first Universal Studios theme park outside of the United States, and more than eight million people are expected to visit it annually. It is scheduled to open in spring 2001.

From Japan

ERS Organizes Emergency Report Meeting Regarding Earthquakes in Turkey and Taiwan

Kajima and Engineering & Risk Services Corporation (ERS), which is a Kajima Group company, have presented reports on their on-site investigations of the major earthquakes that recently struck northwest Turkey and central Taiwan.

The report on the Turkish earthquake was presented on September 16 at the United Nations University in Tokyo's Aoyama district. Norio Suzuki of the Kajima Technical Research Institute was a member of a reconnaissance team comprised of representatives from the Architectural Institute of Japan, the Japan Society of Civil Engineers, and the Japanese Geotechnical Society. He reported that the laxity of building inspections in Turkey is one of the main reasons for the proliferation of buildings that did not conform to building codes.

On October 7, the report on the Taiwan earthquake was presented at a hotel in Tokyo's Shinjuku district. Hideo Kagawa, a managing director of ERS and general manager of that company's Management Services Department, reported on structural damage in Taiwan and future countermeasures. The almost 650 people attending the meeting listened attentively.

From the U.K.

Completion of Daiwa's High-Tech Office Development

In July, Kajima U.K. Engineering Ltd. completed a new office building in central London for Daiwa Europe Property Plc. The 88 Wood Street Building was designed by the Richard Rogers Partnership and comprises a basement and 18 floors (32,657 square meters) in three interconnected towers with stepped terraces from the eighth floor upward. The building has a "climate facade" (large, triple-glazed panels with motorized blinds fitted to the air-conditioned interspace) and eight glass observation elevators. Mechanical and electrical services for 24-hour trading with a standby generator capacity of 4MW and an urgent power system were also provided.

Initially Kajima provided project management services and, after scheme design, it was later changed to a design and build contract by novation from the client's design team. Then Kajima carried out the internal fitting out (23,000 square meters) of the building in a joint venture with Hazama Corporation. The designer was Kajima Design Europe Ltd.

From the Philippines

Completion of the Second Mandaue Mactan Bridge in the Philippines

A monumental new bridge has been completed in the southern Philippines. The Second Mandaue Mactan Bridge connects Cebu Island with Mactan Island, on which the nation's second largest airport is located. The bridge was created to ease traffic congestion on the nearby first bridge and cope with the increasing volume of traffic caused by the growth and industrialization of the city of Cebu.

The main part of the bridge was constructed through a joint venture of Kajima and Sumitomo Construction Co., Ltd., and the approach viaducts were constructed by a consortium of local contractors. The main portion of the bridge consists of three spans of continuous extradosed prestressed concrete with a total length of 410 meters. The center span alone is 185 meters long. Opened on August 1999, the bridge is expected to serve as a vital link between the two islands.

Hikoya Maeda, who was in charge of the bridge's construction, was recently presented with the 19th Engineering Distinguished Service Award of the Engineering Advancement Association of Japan.

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